

SHEN ZHEN SAMCOME ECOTECH.,LTD 深圳市三江环保科技有限公司

About us

Samcome is a professional manufacturer of environmental protection materials. Committed to environmental protection, to provide our customers with more environmentally friendly products with good performance, affordable price and excellent quality.

Profession: Production, research and development and sales of fully degradable packaging materials and PLA modified raw materials including: filled particles, bubble films, foam boxes, straws and other fully degradable environmentally friendly materials.

Focus: Through technological innovation and patent mergers and acquisitions, the integration of upstream and downstream resources in the industry, strive to reduce production costs and improve product competitiveness.

Concentration: Committed to providing the best packaging solutions for our customers!



Filling particles



Bubble film



Pearl cotton



Shopping bags



Straws

SAMCOME has an excellent sales and R&D team. After years of research and development, it has obtained a number of invention patents and new utility patents. Fully degradable water foaming material. Raw materials are extracted from natural plants, and water is used as a foaming agent. The production process of the materials is environmentally friendly and the materials be completely can raw biodegradable, which can be widely used in the packaging field.











Base material Biomass materials



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High Productivity

Lower Cost

Static Free

Completely biodegradable

Foaming Process

More environmentally friendly and safer



Natural extract Completely degradable



Water
Colorless, tasteless and odorless
Stable properties and low cost



polystyrene resin cannot be degraded



Butane Flammable, explosive, toxic Has a slightly pungent odor

Foaming process of traditional foam materials

More flammable and dangerous



Buffer Particle

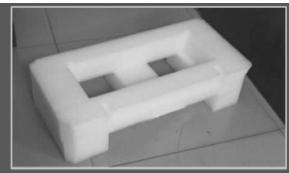


Buffer Board



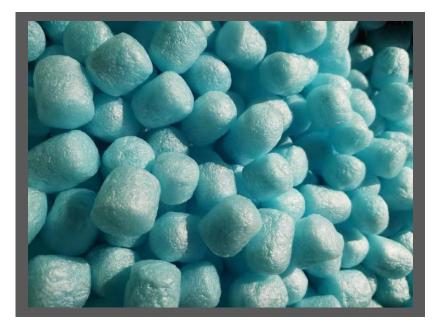


Box



Special-Shape

Parameter Comparison







Fully degradable water foaming material

Density: 10-14kg/m³

Strength (50%): ≥0.5kPa

Rebound: ≥80%

Degradable: fully degradable

Polystyrene

6-12kg/m³

≥0.5kPa

≥80%

Non-degradable

Pearl cotton

8-12kg/m³

≥0.5kPa

≥80%

Non-degradable

Foamting:

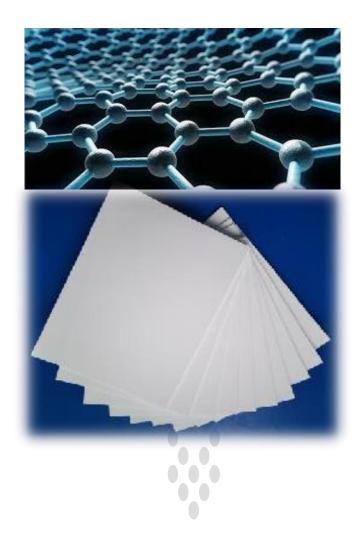
Foam board: A thermoplastic polymer foam material with high closed cell ratio, which is made of polypropylene as the main raw material and using green and environmentally friendly supercritical fluid foaming technology. Replacement: silicone foam & polyurethane foam.

Advantage:

- 1. Micro-nano closed pore structure, uniform and dense, delicate surface, good mechanical properties
- 2. Excellent low dielectric constant DK and loss Df
- 3. Hydrophobic, resistant to acid and alkali corrosion, stable performance
- 4. Thermoplastic material, no cross-linking, recyclable
- 5. No VOC, no harmful residue, meets RoHS standards, flame retardant meets HF-1 6. Strong processability, suitable for various conventional processing forms such as sawing, punching, thermal compounding, and machining.



The cost is slightly higher than that of EVA



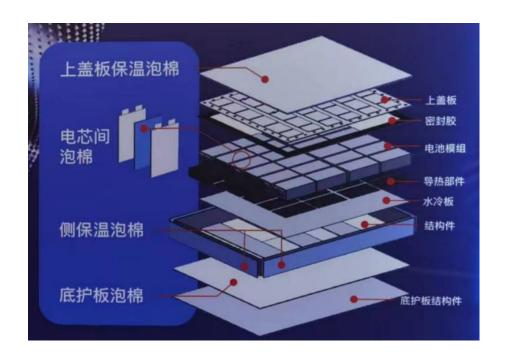
Lithium battery application:

Flame retardant, insulating, buffering, high temperature resistant.

Advantage:

- 1. Light weight, low density, no VOC.
- 2. Good creep performance.
- 3. Resistant to chemical corrosion.
- 4. Withstand voltage breakdown.
- 5. Good thermal stability.
- 6. No cross-linking, recyclable, environmentally friendly.

In addition, other car parts: ceiling, trunk cover, waterproof door film, car seat foam, sealing and shockabsorbing parts





Surfboard:

Old structure: EPS+PVC surface+glass fiber reinforced fabric.

New structure: EPS+foam board+fiberglass cloth

Advantage:

The white appearance is beautiful and has a low density, which is 1/10 of PVC, reducing the overall weight of the surfboard by 30%, making it more buoyant and providing better surfing effects.

Disadvantages:

Problems with the PVC surface: it is not resistant to seawater corrosion, is prone to yellowing under ultraviolet rays, and has high density, which makes the overall weight of the surfboard heavier.



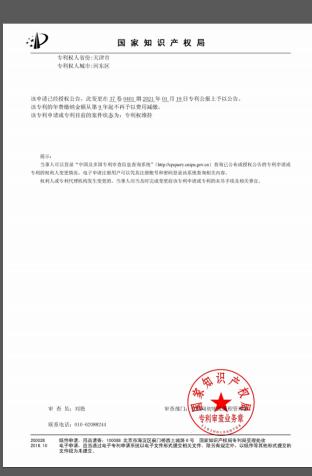


Product performance:

Item	Standard	Unit	10	15	20	25	
Density	ISO845-2006	Kg/m ³	90±5	60±5	45±5	36±5	
Strenght	HG/T2489-2007	/	80±5	70±5	60±5	55±5	
Tensile	ISO1798 (@500mm/min)	MPa	5.1	3.3	2.5	1.5	
Elogation		%	47.9	39.2	39.2	34.1	
Dielectric constant	ACTMD 450(@2011-)	/	1.11	1.08	1.06	1.05	
Dielectric loss	ASTMD 150(@3GHz)	1	~10 ⁻⁴	~10 ⁻⁴	~10-4	~10 ⁻⁴	
Thermal Conductivity	ISO8302	W/(m.K)	0.047	0.044	0.044	0.042	
RoHS	2011/65/EU	/	ND				
Size		2400*1100mm					

Patent











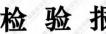
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Test Report











Test Report

№: JC-20170606



产品名称: 聚乳酸水发泡泡沫塑料

受 检 单 位: 中国科学院长春应用化学研究所

检验类别:委托检验

注意事项

REMARKS

- 1. 报告无"检验专用章"和"骑缝章"无效。
- The report is invalid without the seal of special stamp for the test report and
- 2. 复制报告未重新加盖"检验专用章"和"骑缝章"无效。
- The copy of the report is invalid without a new seal of special stamp for the test report and Paging seal.
- 3. 报告无主检、审核、批准人签字无效。
- The report is invalid without signatures of tester, inspector and approver.
- The report is invalid if altered.
- 5. 对检验报告若有异议,请于收到之日起十五日内以书面形式向本院提出,
- If there is any objection to the report, please raise it to the institute in writing within 15 days after receiving the report, the objection is not accepted exceed the
- 6. 客户送样的委托检验结果仅对来样有效。
- The report is valid only for the samples in the case of delivering samples by
- 7. 报告所涉及的企业标准/企业技术规范类不在资质认定范围内。
- The enterprise standards and technical specifications referred to in this report are not within the scope of qualification certification.
- 地址:中国•吉林省长春市宜居路2699号
- Address: No.2699, YiJu Road, Changchun, China

邮编(Post Code):130103 电话(Tel):0431-85374718

传真(Fax): 0431-85000111 电子信箱(E-mail):jlszjy@sohu.com

(Website):http://www.jlszjy.cn

淘宝店铺: http://shop117485818.taobao.com

产品名称	聚乳酸水	发泡泡沫塑料	商标	規格型号	100mm×100mm× 40mm	
委托单位	中国科学院长春应用化学研究所					
受检单位	中国科学院长春应用化学研究所					
生产单位						
检验项目	表观密度、压缩强度					
抽样日期	100	抽样人员	F - F	样品到达日期	2017 - 6 - 12	
样品数量	5块	抽样基数	14 1	送样人员	韩常玉	
样品等级	2	生产日期/批号	/	样品状态	外观良好	
检验依据		343-2009《泡沫塑 泡沫塑料压缩试验		密度的测定》、	GB/T 8813-2008	
10	2.59	本检验只提供数据,不作结论。				

Na: JC-2	20170606			/387	共2页第	5 2 页
序号	检验项目	单位	技术要求	检验结果	单项 结论	备注
1	表观密度	kg/m³	12 /2	27	-	è
2	压缩强度	kPa	700	4	600	-4

Award

KLPE 中国科学院长春从用化学研究所 中国科学院生态环境高分子材料重点实验室

测 试 报 告

报告编号: JCBG-20-1229-2

委托单位: 天津佰盛环保科技有限公司 Customer:

样品名称:生物降解发泡材料

Sample Name:

检测类别: 委托

Type of Project:

发送日期: 2020 年 12 月 29 日

Date for Reporting:

报告编号: JC8G-20-1229-2

注意事项

Announcements

- 委托分析测试,本报告检测结果仅对所送样品有效。/ The results are only used as references for the tested samples.
- 对本报告者有异议、应于报告发出之日起。5 日內向本中心提出顛詢。逾期不 于受理。/ Any objection to this report should be issued out within 5 days after this report is delivered out.
- 本报告不得作为商品广告使用。/ This report cannot be used for any merchandise advertisement.

中国科学院长春应用化学研究所

中国科学院生态环境高分子材料重点实验室

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测试报

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报告编号: JC8G-20-1229-2

测试报告

样品名称	生物降解发泡材料	样品批号	1	样品编号	JCBG-20-1229-	
样品数量	1组	收样日期	2020-12-21	注册商标	1	
分析前 样品状况	泡沫状颗粒	分析后 样品状况	破坏	检测环境	温度: 21°C 湿度: 45%	
送样单位	天津佰盛环保科	技有限公司				
委托单位	天津佰鑫环保科技有限公司					
检测类型	委托					
起止日期	2020年12月21日至2020年12月29日					
		红外峰值		GBT 6040-2002		
		熔点和焓值		GBT 19466.1-2004		
		淀粉含量		QB/T 2957-2	008	
检测项目 及依据						

测试报告

检测情况

其他说明

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报告编号: JCBG-20-1229-2

检测结果(其中图 0页 表 0 页 照片 0 张)

检测结果: 经检测,送检的发泡颗粒主要成分含有聚乳酸 (PLA)、聚己二酸/对苯二甲酸丁二酯 (PBAT) 及淀粉。

结果判定:送检样品 99%为生物降解材料 (聚乳酸 (PLA)、聚己二酸/ 对苯二甲酸丁二酯 (PBAT) 及淀粉) 制成的发泡颗粒。

以下空白------

检测人: 子姊媒

申核人: 引起

检测单位:中国科学院生态环境高分子材料重点实验室

日期: 2020 年 12 月 29 日

测试报告

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Love Environment Use Samcome